



## SEQUENCE LISTING

March 31, 1999

#51a

### (1) GENERAL INFORMATION

<110> (i) Applicants: Wolfe, M. Michael  
Tseng, Chi-Chuan  
Neville, Linda

<120> (ii) Title: *Specific Antagonists for Glucose-Dependent  
Insulinotropic Polypeptide (GIP)*

<130> File Reference: 34477.00002

<140> Current Appn No.: U.S. Serial No. 08/984,476

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<151> Prior Filing Date: 12/03/96

<160> (iii) No. of SEQ ID NOS: 14

#### (iv) Correspondence Address

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#### (v) Computer Readable Form

(A) Medium Type: Diskette  
(B) Computer: IBM PC compatible  
(C) Operating System: PC-DOS/MS-DOS  
(D) Software: Windows 98/Word Perfect 6.1

#### (viii) Attorney/Agent Information

(A) Name: Peter J. Manso  
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(ix) Telecommunication Information

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<170> Software: Windows 98/Word Perfect 6.1

(2) SEQUENCE INFORMATION

<210> SEQ ID NO:1:

(i) Sequence Characteristics:

(A) Length: 30 amino acids

(B) Type: amino acid

(D) Topology: linear

(ii) Molecule Type: polypeptide

(xi) Sequence Description: SEQ ID NO:1:

Tyr 1	Ala	Glu	Gly	Thr 5	Phe	Ile	Ser	Asp	Tyr 10
Ser	Ile	Ala	Met	Asp 15	Lys	Ile	His	Gln	Gln 20
Asp	Phe	Val	Asn	Trp 25	Leu	Leu	Ala	Gln	Lys 30

<210> SEQ ID NO:2:

(i) Sequence Characteristics:

(A) Length: 24 amino acids

(B) Type: amino acid

(D) Topology: linear

(ii) Molecule Type: polypeptide

(xi) Sequence Description: SEQ ID NO:2:

Ile 1	Ser	Asp	Tyr	Ser 5	Ile	Ala	Met	Asp	Lys 10
Ile	His	Gln	Gln	Asp 15	Phe	Val	Asn	Trp	Leu 20
Leu	Ala	Gln	Lys 24						

**<210> SEQ ID NO:3:**

- (i) Sequence Characteristics:
  - (A) Length: 15 amino acids
  - (B) Type: amino acid
  - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:3:

Lys 1	Ile	His	Gln	Gln 5	Asp	Phe	Val	Asn	Trp 10
Leu	Leu	Ala	Gln	Lys 15					

**<210> SEQ ID NO:4:**

- (i) Sequence Characteristics:
  - (A) Length: 9 amino acids
  - (B) Type: amino acid
  - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:4:

Ile	Ser	Asp	Tyr	Ser	Ile	Ala	Met	Asp
1				5				9

**<210> SEQ ID NO:5:**

- (i) Sequence Characteristics:
  - (A) Length: 21 amino acids
  - (B) Type: amino acid
  - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:5:

Tyr	Ser	Ile	Ala	Met	Asp	Lys	Ile	His	Gln
1				5					10
Gln	Asp	Phe	Val	Asn	Trp	Leu	Leu	Ala	Gln
				15					20
Lys									
21									

**<210> SEQ ID NO:6:**

- (i) Sequence Characteristics:
  - (A) Length: 3 amino acids
  - (B) Type: amino acid
  - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:6:

Ile	Ser	Asp
1		3

**<210> SEQ ID NO:7:**

- (i) Sequence Characteristics:  
    (A) Length: 30 amino acids  
    (B) Type: amino acid  
    (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:7:

Tyr 1	Ala	Glu	Gly	Thr 5	Phe	Ile	Ser	Asp	Tyr 10
Ser	Ile	Ala	Met	Asp 15	Lys	Ile	Arg	Gln	Gln 20
Asp	Phe	Val	Asn	Trp 25	Leu	Leu	Ala	Gln	Lys 30

**<210> SEQ ID NO:8:**

- (i) Sequence Characteristics:  
    (A) Length: 24 amino acids  
    (B) Type: amino acid  
    (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:8:

Ile 1	Ser	Asp	Tyr	Ser 5	Ile	Ala	Met	Asp	Lys 10
Ile	Arg	Gln	Gln	Asp 15	Phe	Val	Asn	Trp	Leu 20
Leu	Ala	Gln	Lys						

**<210> SEQ ID NO:9:**

- (i) Sequence Characteristics:
- (A) Length: 15 amino acids
- (B) Type: amino acid
- (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:9:

Lys 1	Ile	Arg	Gln	Gln 5	Asp	Phe	Val	Asn	Trp 10
Leu	Leu	Ala	Gln	Lys 15					

**<210> SEQ ID NO:10:**

- (i) Sequence Characteristics:
- (A) Length: 21 amino acids
- (B) Type: amino acid
- (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:10:

Tyr 1	Ser	Ile	Ala	Met 5	Asp	Lys	Ile	Arg	Gln 10
Gln	Asp	Phe	Val	Asn 15	Trp	Leu	Leu	Ala	Gln 20
Lys 21									

**<210> SEQ ID NO:11:**

- (i) Sequence Characteristics:  
(A) Length: 42 amino acids  
(B) Type: amino acid  
(D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:11:

Tyr 1	Ala	Glu	Gly	Thr 5	Phe	Ile	Ser	Asp	Tyr 10
Ser	Ile	Ala	Met	Asp 15	Lys	Ile	His	Gln	Gln 20
Asp	Phe	Val	Asn	Trp 25	Leu	Leu	Ala	Gln	Lys 30
Gly	Lys	Lys	Asn	Asp 35	Trp	Lys	His	Asn	Ile 40
Thr	Gln 42								

**<210> SEQ ID NO:12:**

- (i) Sequence Characteristics:  
(A) Length: 42 amino acids  
(B) Type: amino acid  
(D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:12:

Tyr 1	Ala	Glu	Gly	Thr 5	Phe	Ile	Ser	Asp	Tyr 10
Ser	Ile	Ala	Met	Asp 15	Lys	Ile	Arg	Gln	Gln 20
Asp	Phe	Val	Asn	Trp 25	Leu	Leu	Ala	Gln	Lys 30
Gly	Lys	Lys	Asn	Asp 35	Trp	Lys	His	Asn	Ile 40
Thr	Gln 42								

**<210> SEQ ID NO:13:**

- (i) Sequence Characteristics:
  - (A) Length: 10 amino acids
  - (B) Type: amino acid
  - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:13:

Asp	Phe	Val	Asn	Trp 5	Leu	Leu	Ala	Gln	Lys 0
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**<210> SEQ ID NO:14:**

- (i) Sequence Characteristics:
  - (A) Length: 14 amino acids
  - (B) Type: amino acid
  - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:14:



Gly	Lys	Lys	Asn	Asp 5	Trp	Lys	His	Asn	Ile 10
Thr	Gln	Arg	Glu 44						

### (3) PUBLICATIONS

#### <300> Publication 1:

<301> Authors: Takeda, Jun  
Seino, Yutaka  
Tanaka, Ken-Ichi  
Fukumoto, Hirofumi  
Toshiaki, Kayano  
Takahashi, Haruo  
Masayasu, Kurono  
Suzuki, Takashi  
Tobe, Takayoshi  
Imura, Hiroo

<302> Title: *Sequence of an Intestinal cDNA Encoding Human Gastric Inhibitory Polypeptide Precursor*

<303> Journal: Proc. Natl. Acad. Sci. USA

<304> Volume: B84

<305> Issue:

<306> Pages: 7005 - 7008

<307> Date: 1987 October

#### <300> Publication 2:

<301> Authors: Tseng, Chi-Chuan  
Jarobe, Linda A.

Landau, Steven B.  
Williams, Erin K.  
Wolfe, M. Michael

<302> Title: *Glucose-Dependent Insulintropic Peptide: Structure of the Precursor and Tissue-Specific Expression in Rat*

<303> Journal: Proc. Natl. Acad. Sci. USA

<304> Volume: B90

<305> Issue:

<306> Pages: 1992 - 1996

<307> Date: 1993 March

**<300> Publication 3:**

<301> Authors: Bonner, T.I.  
Usdin, T.B.

<302> Title: Genbank Accession No.U39231

<307> Date: 1995

**<300> Publication 4:**

<301> Authors: Jornvall, Hans  
Carlquist, Mats  
Kwauk, Sam  
Otte, Susan C.  
McIntosh, Christopher, H.S.  
Brown, John C.  
Mutt, Viktor

<302> Title: *Amino Acid Sequence and Heterogeneity of gastric Inhibitory Polypeptide (GIP)*

<303> Journal: FEBS LETTERS  
<304> Volume: 123  
<305> Issue: 2  
<306> Pages: 2-5 - 210  
<307> Date: 1981 January